

# Anti-PKR Antibody [SC06-37]

ET1610-84



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human
<b>Applications:</b>	WB
<b>Molecular Wt:</b>	Predicted band size: 62 kDa
<b>Clone number:</b>	SC06-37

**Description:** An interferon-inducible, RNA-dependent protein serine/threonine kinase (PKR) has been described. PKR in earlier literature is variously known as DAI, dsJ, PI kinase, p65, p67 or TIK for the mouse kinase; and p68 or p69 for the human kinase. The PKR kinase substrate is the  $\alpha$  subunit of protein synthesis initiation factor eIF-2. Phosphorylation of eIF-2 $\alpha$  on serine-51 results in inhibition of translation. Molecular cDNA clones have been isolated from both human and mouse cells. The serine/threonine kinase catalytic domains map to the carboxy terminal half of the protein while the RNA-binding domains are located in the amino terminal region. Three kinds of regulation of PKR enzymatic activity have been described. These include transcriptional regulation in response to interferon, an autoregulatory mechanism controlling PKR expression at the level of translation and post-translational regulation by RNA mediated autophosphorylation.

**Immunogen:** Synthetic peptide within human PKR aa 500-540.

**Positive control:** A549 cell lysate, HepG2 cell lysate, MCF-7, human kidney tissue.

**Subcellular location:** Nucleus, Cytoplasm, perinuclear region.

**Database links:** SwissProt: P19525 Human

**Recommended Dilutions:**

**WB** 1:1,000-1:5,000

**Storage Buffer:** 1\*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

**Purity:** Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

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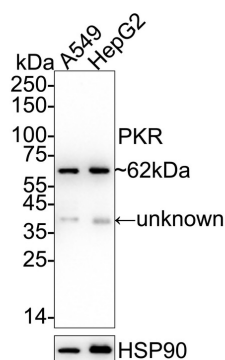
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## Images

**Fig1:** Western blot analysis of PKR on different lysates with Rabbit anti-PKR antibody (ET1610-84) at 1/2,000 dilution.

Lane 1: A549 cell lysate

Lane 2: HepG2 cell lysate



Lysates/proteins at 20 µg/Lane.

Predicted band size: 62 kDa

Observed band size: 62 kDa

Exposure time: 1 minute; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (ET1610-84) at 1/2,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

### Background References

1. Maity B et al. Molecular mechanism of the anti-inflammatory activity of a natural diarylnonanoid, malabaricone C. *Free Radic Biol Med* 52:1680-1691 (2012).
2. Lindquist ME et al. Activation of protein kinase R is required for induction of stress granules by respiratory syncytial virus but dispensable for viral replication. *Virology* 413:103-110 (2011).

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